

A taxonomic study of the subfamily Dacinae (Diptera: Tephritidae) from Hainan, China

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Abstract: The subfamily Dacinae (Diptera: Tephritidae) from Hainan Province, China, is surveyed and reviewed. The following 14 species are recognized: *Bactrocera* (*Bactrocera*) *dorsalis* (Hendel), *B.* (*B.*) *latifrons* (Hendel), *B.* (*B.*) *rubigina* (Wang et Zhao), *B.* (*B.*) *wuzhishana* Lin et Yang sp. nov., *B.* (*Sinodacus*) *hochii* (Zia), *B.* (*Zeugodacus*) *abbreviata* (Hardy), *B.* (*Z.*) *caudata* (Fabricius), *B.* (*Z.*) *cilifera* (Hendel), *B.* (*Z.*) *cucurbitae* (Coquillett), *B.* (*Z.*) *diaphora* (Hendel), *B.* (*Z.*) *scutellata* (Hendel), *B.* (*Z.*) *tau* (Walker), *Dacus* (*Callantra*) *haikouensis* Wang et Chen, *Dacus* (*Dacus*) *hainanus* Wang et Zhao. *B.* (*B.*) *wuzhishana* Lin et Yang sp. nov. is differentiated from all other congeners of *Bactrocera* by having: 1) 2 large black spots on sides of face; 2) 2 lateral postsutural yellow vittae on scutum rather narrow and short, extending to a level with postsutural supra-alar setae; 3) costal band confluent with vein R_{2+3} and slightly expanded apically; and 4) fore femora entirely black, mid femora black with the basal 1/2 yellow, hind femora black with the basal 3/5 yellow; abdomen entirely black. A check list and key to species of the Dacinae from this island is provided.

Key words: Diptera; Tephritidae; Dacinae; *Bactrocera*; *Dacus*; new species; China

The dacine fruit flies (Diptera: Tephritidae: Dacinae) of the South-east Asia and South Pacific region are major pests of fruit and vegetable crops, and their taxonomy, biology and control have been much researched (Hardy, 1973, 1974, 1977, 1982, 1983; Drew, 1989; Drew and Hancock, 1994; Drew et al., 1998). The knowledge of the subfamily Dacinae from Hainan Province, China was largely based on the following taxonomic works: Wang and Zhao (1989), Wang (1990, 1996), Wang and Chen (2002), and Wang et al. (2002). Only 9 species of Dacinae have been recorded from this island so far. The subfamily Dacinae was recently divided into four genera: *Bactrocera* Macquart, *Dacus* Fabricius, *Ichneumonopsis* Hardy and *Monacrostichus* Bezzi (Drew and Hancock, 1998; Wang and Chen, 2002). All the known dacine species of Hainan Island belong to the first two genera.

This paper deals with the partial results of an extensive fruit-fly field survey and monitoring during 2000–2004 in Hainan. The collecting was done by using the male lure, Methyl eugenol and Cue lure. A total of 14 species of the Dacinae are presently recognized. Among them *B.* (*Zeugodacus*) *abbreviata* (Hardy), *B.* (*Z.*) *cilifera* (Hendel), *B.* (*Z.*) *diaphora* (Hendel) and *B.* (*Z.*) *scutellata* (Hendel) are newly recorded in the

island, and *B.* (*B.*) *wuzhishana* Lin et Yang is described as new to science.

Morphological terminology generally follows McAlpine (1981) and Drew et al. (1998). Length of body and wing is measured in millimeters.

Check list of species of Dacinae known from Hainan Island

Bactrocera (*Bactrocera*) *dorsalis* (Hendel, 1912)

Distribution: China: Hainan (Haikou, Wenchang, Qionghai, Dunchang, Dingan, Qionghai, Qiongzong, Wannin, Lingshui, Tongshi, Baoting, Sanya, Ledong, Dongfang, Changjiang, Baisha, Danzhou, Lingao, Chengmai, Wuzhishan, Jianfengling, Bawangling), Hunan, Guangdong, Guangxi, Fujian, Sichuan, Yunnan, Guizhou, Taiwan; widespread over the Oriental region.

Attractant: Methyl eugenol.

Bactrocera (*Bactrocera*) *latifrons* (Hendel, 1915)

Distribution: China: Hainan (Haikou, Wenchang, Danzhou, Qiongzong, Dongfang, Jianfengling), Fujian, Yunnan, Taiwan; Thailand, Laos, India, Sri Lanka, Singapore, Malaysia.

Attractant: Methyl eugenol (new record).

Bactrocera (*Bactrocera*) *rubigina* (Wang et Zhao, 1989)

基金项目: 国家自然科学基金项目(30370189)

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收稿日期 Received: 2005-08-15; 接受日期 Accepted: 2005-10-16

Distribution : China : Hainan (Haikou , Wenchang , Dingan , Baoting , Wannin , Qiongzong , Changjiang , Baisha , Danzhou , Sanya , Wuzhishan , Jianfengling) , Guangdong , Guangxi .

Attractant : Cue lure .

***Bactrocera* (*Bactrocera*) *wuzhishana* Lin et Yang, sp. nov.**

Distribution : China : Hainan (Wuzhishan , Qiongzong , Baoting , Danzhou , Sanya , Jianfengling , Bawangling) .

Attractant : Methyol eugenol .

***Bactrocera* (*Sinodacus*) *hochii* (Zia, 1936)**

Distribution : China : Hainan (Tongshi , Yanpu , Wuzhishan) , Yunnan ; Thailand , Malaysia .

Attractant : Cue lure .

***Bactrocera* (*Zeugodacus*) *abbreviata* (Hardy, 1974)**

Distribution : China : Hainan (new record from Qiongzhou , Wuzhishan , Jianfengling , Bawanglin) ; Philippines .

Attractant : Cue lure (new record) .

***Bactrocera* (*Zeugodacus*) *caudata* (Fabricius, 1805)**

Distribution : China : Hainan (Wenchang , Wanin , Baisha , Baiting , Sanya , Yangpu , Danzhou , Jianfengling) , Taiwan ; South-east Asia .

Attractant : Cue lure .

***Bactrocera* (*Zeugodacus*) *cilifera* (Hendel, 1912)**

Distribution : China : Hainan (new record from Wuzhishan) , Guangxi , Yunnan , Taiwan ; Thailand , Vietnam , Laos .

Attractant : Cue lure .

***Bactrocera* (*Zeugodacus*) *cucurbitae* (Coquillett, 1899)**

Distribution : China : Hainan (Haikou , Wenchang , Qiongsan , Dunchang , Dingan , Qionghai , Qiongzong , Wannin , Lingshui , Tongshi , Baoting , Sanya , Ledong , Dongfang , Changjiang , Baisha , Danzhou , Lingao , Chengmai , Wuzhishan , Jianfengling , Bawangling) ; Shanghai , Guangdong , Guangxi , Fujian , Guizhou , Yunnan ,

Taiwan ; Oriental Region , Egypt , Kenya , Tanzania , Mauritius , Reunion , Hawaii Is .

Attractant : Cue lure .

***Bactrocera* (*Zeugodacus*) *diaphora* (Hendel, 1915)**

Distribution : China : Hainan (new record from Haikou , Anding , Qiongzong , Baoting , Sanya , Danzhou , Wuzhishan , Jianfengling , Bawangling) , Sichuan , Yunnan , Taiwan ; Thailand , Vietnam , India , Sri Lanka .

Attractant : Cue lure .

***Bactrocera* (*Zeugodacus*) *scutellata* (Hendel, 1912)**

Distribution : China : Hainan (new record from Haikou , Wenchang , Baoting , Dongfang , Wuzhishan , Jianfengling , Bawangling) , Jiangsu , Shanghai , Anhui , Zhejiang , Hubei , Jiangxi , Hunan , Guangdong , Guangxi , Fujian , Sichuan , Guizhou , Yunnan , Taiwan ; Peninsular Korea , Japan .

Attractant : Cue lure .

***Bactrocera* (*Zeugodacus*) *tau* (Walker, 1849)**

Distribution : China : Hainan (Haikou , Wenchang , Qiongsan , Dunchang , Dingan , Qionghai , Qiongzong , Wannin , Lingshui , Tongshi , Baoting , Sanya , Ledong , Dongfang , Changjiang , Baisha , Danzhou , Lingao , Chengmai , Wuzhishan , Jianfengling , Bawangling) , Zhejiang , Hubei , Jiangxi , Hunan , Guangdong , Guangxi , Fujian , Sichuan , Guizhou , Yunnan , Xizang , Taiwan ; Oriental Region .

Attractant : Cue lure .

***Dacus* (*Callantra*) *haikouensis* Wang et Chen, 2002**

Distribution : China : Hainan (Haikou , Baoting , Sanya , Jianfengling) .

Attractant : Cue lure (new record) .

***Dacus* (*Dacus*) *hainanus* Wang et Zhao, 1989**

Distribution : China : Hainan .

Attractant : No known record .

Key to genera and species of Dacinae known from Hainan Island

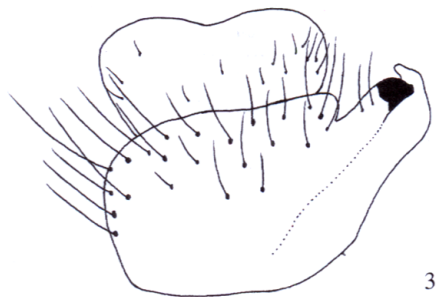
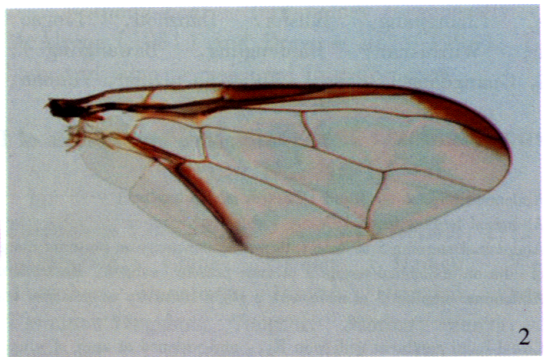
1. Abdomnal tergites not fused (*Bactrocera* Macquart) 2
 Abdminal tergites fused (*Dacus* Fabricius) 13
 2. Abdominal sternum 5 of male with a deep concavity on posterior margin ; posterior surstylar lobe short , at most twice as long as anterior lobe ; pectin of cilia on abdominal tergite 3 of male present (subgen. *Bactrocera* Macquart) 3
 Abdominal sternum 5 of male with a slight concavity on posterior margin ; posterior surstylar lobe long , at least 6 times as long as anterior lobe 6
 3. Costal band confluent with vein R_{2+3} and widened at apex of wing 4
 Costal band rather narrow , not widened at apex of wing ; scutum black , with 2 lateral postsutural yellow vittae ; abdomen yellow to yellowish brown , tergite 3 with a transeverse black band across anterior margin , a median longitudinal black stripe extending over tergites 3 – 5 , sometimes tergites 4 and 5 each with 2 anterolateral black spots *B.* (*Bactrocera*) *dorsalis*
 4. Scutum entirely black except for 2 lateral postsutural yellow vittae 5
 Scutum predominantly rubiginous , with 2 lateral postsutural yellow vittae extending to about a level with intra-alar setae *B.* (*Bactrocera*) *rubigina*
 5. Two lateral postsutural yellow vittae on scutum narrow and short , extending to about a level with postsutural supra-alar setae ; fore femora entirely black , mid femora black except for basal 1/2 yellow , hind femora black with basal 3/5 yellow ; abdomen entirely black *B.* (*Bactrocera*) *wuzhishana* Lin et Yang sp. nov.
 Two lateral postsutural yellow vittae on scutum broad and long , extending to a level with intra-alar setae ; femora mostly yellow , each with an apical brown mark on ventral surface ; abdomen predominantly reddish brown , tergite 3 usually with a narrow dark brown band across anterior margin , sometimes with a faint , incomplete , median dark brown to black stripe extending over tergites 3 – 5 *B.* (*Bactrocera*) *latifrons*
 6. Prescutellar acrostichal setae present ; scutum with 2 or 3 postsutural yellow vittae (subgen. *Zeugodacus* Coquillett) 7
 Prescutellar acrostichal setae absent ; scutum without postsutural yellow vittae ; face yellow , with a black band across lower portion ; costal band confluent with vein R_{2+3} , a large brown mark occupying entire apex of wing *B.* (*Sinodacus*) *hochii*
 7. Face with 2 black spots or transeverse black band ; femora predominantly yellow 8
 Face entirely black in male or with lower 1/3 – 1/2 black in female ; femora black except for basal 1/2 of mid pair and basal 1/3 of hind pair yellow *B.* (*Zeugodacus*) *diaphora*
 8. Scutun with only 2 postsutural yellow vittae 9
 Scutum with 3 postsutural yellow vittae 10
 9. Two pairs of scutellar setae present ; face with 2 black spots on sides ; scutellum with a broad median black stripe extending over disc ; lateral

- postsutural yellow vittae on scutum distinctly abbreviated, ending to about a level with postsutural supra-alar setae; wing almost entirely hyaline, lacking costal band and anal streak *B. (Zeugodacus) abbreviata*
- One pair of scutellar setae present; face with 2 black crossbands; scutellum almost entirely yellow; lateral postsutural yellow vittae elongate, extending to behind level of intra-alar setae; wing with a small brown spot at apex, costal band confluent with vein R_{2+3} and anal streak extending posterior margin of wing *B. (Zeugodacus) cilifera*
10. Face with 2 black spots 11
- Face with a transverse black band; costal band confluent with vein R_{2+3} , apically widened; scutum black, with 3 postsutural yellow vittae; scutellum entirely yellow except for a narrow black band at base; abdomen yellow to yellowish brown marked with dark brown to black on lateral margins, tergites 2 and 3 each with a black band across anterior portion, tergites 4 and 5 each with a pair of short black band on anterolateral portion, and a narrow median black stripe extending through tergites 3–5 *B. (Zeugodacus) caudata*
11. Two pairs of scutellar setae present; wing lacking a dark band over crossvein dm-cu and a dark mark on r-m 12
- One pair of scutellar setae present; wing with a broad brown band over crossvein dm-cu and usually a short brown mark just on r-m, costal band confluent with vein R_{4+5} and greatly expanded into a large spot at apex; scutum predominantly reddish brown, with 3 postsutural yellow vittae; scutellum entirely yellow except for a narrow reddish brown band at base *B. (Zeugodacus) cucurbitae*
12. Scutum entirely black except for 3 postsutural yellow vittae and 2 small lateral yellow spots just before suture; scutellum with a black spot at apex; costal band slightly widened at apex of wing; abdomen yellowish brown to reddish brown, tergite marked with black on anterior and lateral margins, tergites 2–4 each with a broad black band across anterior portion, tergite 5 with a pair of short black band on anterior margin and a median longitudinal black stripe extending over tergites 3–5 but sometimes interrupted in tergal margins *B. (Zeugodacus) scutellata*
- Scutum yellowish brown in ground color, with large black patch and 3 postsutural yellow vittae; scutellum uniformly yellow except for a narrow black band at base; costal band obviously expanded into a large brown spot at apex of wing; abdomen yellow to yellowish brown in ground color, narrowly marked with black along lateral margin, tergites 2 and 3 each with a black band across anterior margin, tergite 4 with short black band on anterolateral margin, and a median longitudinal black stripe extending over tergites 3–5 *B. (Zeugodacus) tau*
13. Antennal length much longer than vertical length of head; abdomen elongate and strongly petiolate, ovipositor usually tubular in shape; face with an inversed-V-shaped black band; scutum reddish brown with irregular black pattern usually including a pair of presutural lateral marks, postsutural dorsocentral stripes and narrow submedial vittae; costal band broad, overlapping vein R_{4+5} *Dacus (Callantra) haikouensis*
- Antennal length less than vertical length of head; abdomen oval, ovipositor compressed dorsocentrally; face with 2 round black spots; scutum reddish brown with a yellow transverse band; costal band confluent with vein R_{2+3} and widened at apex of wing *Dacus (Dacus) hainanus*

***Bactrocera (Bactrocera) wuzhishana* Lin et Yang, sp. nov. (Figs. 1–3)**

Description: Male, body length of body 5.5–7.2 mm; wing length 5.0–6.8 mm. Head: height 1.4–1.8 mm; frons about 1.33 times longer than wide, as

wide as eye, fulvous with a fuscous mark on anteromedial portion and small black spots at bases of frontal and orbital setae; lunule fulvous to pale brown; ocellar triangle black and vertex fulvous; face yellow with 2 large black spots on sides; parafacial yellow and



Figs. 1–3 *Bactrocera (Bactrocera) wuzhishana* Lin et Yang sp. nov. ♂

1. Male adult in dorsal view; 2. Wing; 3. Epandrium, cercus and surstylus in profile.

genae predominantly brown; occiput dark brown with yellow along eye margin; occipital row with 5 – 6 fine black setulae; antenna with segments 1 and 2 fulvous, segment 3 fuscous and about 2.2 times as long as segment 2; arista bare, black, fulvous basally; head setae black with 2 frontals, 1 orbital, 1 inner vertical, 1 outer vertical, 1 genal setae.

Thorax: scutum entirely black except for 2 grayish submedian pollinose stripes and 2 narrow, short lateral postsutural yellow vittae; postpronotal lobes entirely yellow; pleura predominantly black with following yellow areas: notopleural callus, anepisternal stripe, anatergite and katatergite; scutellum yellow with a black basal band; postnotum entirely black; with 2 scutellar, 2 notopleural, 1 postsutural supra-alar, 1 postalar, 1 intra-alar, 1 prescutellar acrostichal, 1 anepisternal and 4 scapular setae; wing hyaline in ground color; costal brown band confluent with vein R_{2+3} and widened at apices of cells r_{2+3} and r_{4+5} ; anal streak extending to posterior margin; cells bc and c colourless; legs black except that basal 1/2 of mid femora and basal 3/5 of hind femora yellow, tarsi and mid tibia fulvous.

Abdomen: oval in shape, abdominal tergites and sternites entirely black; tergite 5 slightly longer than tergite 4 and pecten present on tergite 3; posterior lobe of surstylus short (Fig. 3); sternite 5 with a deep concavity on posterior margin.

Female: Unknown.

Etymology: The specific name is derived from Wuzhishan (= Mt. Wuzhishan), the type locality.

Material examined: Holotype ♂, China: Hainan, Wuzhishan, 1 000 m, 17. VII. 2004, attracted to Methyl eugenol. Paratypes: 4 ♂♂, same locality and date as holotype; 3 ♂♂, same as holotype, 4. VII. 2002; 41 ♂♂, same locality as holotype, 600 m, IX. 2002, attracted to Methyl eugenol, ZEN Qi-Xiong; 3 ♂♂, 25. VI. 2004, attracted to Methyl eugenol, ZEN Qi-Xiong; 5 ♂♂, same locality as holotype, 600 m, 20. VII. 2002, attracted to Methyl eugenol, ZEN Qi-Xiong; 70 ♂♂, Hainan, Bawangling, 7. VII. 2002, attracted to Methyl eugenol, YING Hai-Nan; 17 ♂♂, Hainan, Bawangling, 2. VI. 2003, attracted to Methyl eugenol, YING Hai-Nan; 2 ♂♂, Hainan, Bawangling, 19. VII. 2002, attracted to Methyl eugenol, YING Hai-Nan; 4 ♂♂, Hainan, Chengmai, 17. VII. 2001, attracted to Methyl eugenol, WANG Jia-Lin; 3 ♂♂, Hainan, Haikou, 22. VIII. 2001; 1 ♂, Hainan, Haikou, 29. V. 2002; 1 ♂, Hainan, Jianfengling, 25. IX. 2004, attracted to Methyl eugenol, HONG Xiao-Jiang; 4 ♂♂, Hainan, Changjiang, 17. VII. 2002, attracted to Methyl eugenol; 3 ♂♂, Hainan, Qionghai, 16. IX. 2002, attracted to Methyl eugenol; 1 ♂, Hainan, Qionghai, 22. VII. 2002, attracted to Methyl eugenol; 3 ♂♂, Hainan, Qiongzong, 16. IX. 2002, attracted to

Methyl eugenol; 1 ♂, Hainan, Qiongzong, 7. X. 2002, attracted to Methyl eugenol. Type specimens are deposited in Hainan Entry-Exit Inspection and Quarantine Bureau, Haikou, China.

Distribution: China (Hainan).

Attractant: Methyl eugenol.

Host: Unknown.

Remarks: This species is readily differentiated from all other congeners of *Bactrocera* by having: 1) 2 large black spots on sides of face; 2) 2 lateral postsutural yellow vittae on scutum rather narrow and short, extending to a level with postsutural supra-alar setae; 3) costal band confluent with vein R_{2+3} and slightly expanded apically; and 4) fore femora entirely black, mid femora black with the basal 1/2 yellow, hind femora black with the basal 3/5 yellow; abdomen entirely black.

Acknowledgements The authors are very indebted to Mrs. HUA Li, ZHANG Nin, ZHANG Hui, XU Wei, LI Na and Mr. CHEN Yi-Qun, LI Shi-Bo who participated fruit-fly field monitoring and investigations from many different areas of Hainan Island. We are especially grateful to Dr. I. A. I. Drew (Australian School of Environmental Studies, Griffith University, Queensland, Australia) and Dr. D. L. Hancock (Department of Primary Industries, Queensland, Australia) for providing valuable literatures. Male adult and wing photographs were prepared by Mr. MAI Guo-Qing and we are deeply grateful for his kind help.

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海南寡鬃实蝇亚科分类研究 (双翅目: 实蝇科)

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摘要: 根据 2000~2004 年间海南省实蝇监测和野外调查的部分研究结果, 确认海南寡鬃实蝇亚科 *Dacinae* 现知下列 14 种: 桔小实蝇 *Bactrocera* (*Bactrocera*) *dorsalis* (Hendel), 辣椒果实蝇 *B.* (*B.*) *latifrons* (Hendel), 锈红果实蝇 *B.* (*B.*) *rubigina* (Wang et Zhao), 五指山果实蝇 *B.* (*B.*) *wuzhishana* Lin et Yang, sp. nov., 何氏华实蝇 *B.* (*Sinodacus*) *hochii* (Zia), 短条果实蝇 *B.* (*Zeugodacus*) *abbreviata* (Hardy), 普通果实蝇 *B.* (*Z.*) *caudata* (Fabricius), 两带果实蝇 *B.* (*Z.*) *cilifera* (Hendel), 瓜实蝇 *B.* (*Z.*) *cucurbitae* (Coquillett), 黑颜果实蝇 *B.* (*Z.*) *diaphora* (Hendel), 宽带果实蝇 *B.* (*Z.*) *scutellata* (Hendel), 南亚果实蝇 *B.* (*Z.*) *tau* (Walker), 海口棍腹实蝇 *Dacus* (*Callantra*) *haikouensis* Wang et Chen, 海南寡鬃实蝇 *Dacus* (*Dacus*) *hainanus* Wang et Zhao。五指山果实蝇 *B.* (*B.*) *wuzhishana* Lin et Yang, sp. nov. 区别于果实蝇属内其他种的鉴别特征如下: 1) 颜具 2 个黑色大斑点; 2) 中胸盾片的缝后黄色侧条短而窄, 后端约与缝后翅上鬃处于同一水平; 3) 翅前缘带较窄, 末端稍加宽; 4) 足的股节除中股节基部的 1/2 和后股节基部的 3/5 呈黄色外, 余全黑色; 腹部完全黑色。除附新种特征图外, 还提供海南寡鬃实蝇亚科的种类修订名录和分种检索表。

关键词: 双翅目; 实蝇科; 寡鬃实蝇亚科; 果实蝇属; 寡鬃实蝇属; 新种; 中国

中图分类号: Q969 文献标识码: A 文章编号: 0454-6296(2006)02-0310-05

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